

Applicants: Christina Kabbash et al.

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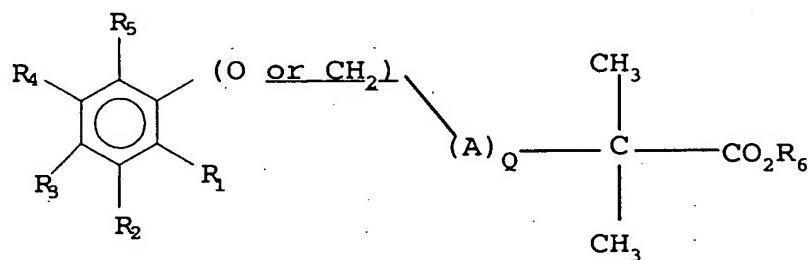
Filed: March 29, 2004

Page 2

In the Claims:

Please replace all previous claim listings with the following claim listing:

1. (currently amended) A method for inhibiting growth of a bacterium which consists essentially of contacting the bacterium with a compound having the structure:



wherein each of R₁, R₂, R₃, R₄, R₅ and R₆ comprises independently H, F, Cl, Br, I, -OH, -OR₇, -CN, -COR₇, -SR₇, -N(R₇)₂, -NR₇COR₈, -NO₂, -(CH₂)_pOR₇, -(CH₂)_pX(R₇)₂, -(CH₂)_pXR₇COR₈, a straight chain or branched, substituted or unsubstituted C₁-C₁₀ alkyl, C₂-C₁₀ alkenyl, C₂-C₁₀ alkynyl, C₃-C₁₀ cycloalkyl, C₃-C₁₀ cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein each of R₇ and R₈ may be independently H, F, Cl, Br, I, -OH, -CN, -COH, -SH₂, -NH₂, -NHCOH, -(CH₂)_pOH, -(CH₂)_pX(CH₂), -(CH₂)_pXCOH, a straight chain or branched, substituted or unsubstituted C₁-C₁₀ alkyl, C₂-C₁₀ alkenyl, C₂-C₁₀ alkynyl, C₃-C₁₀ cycloalkyl, C₃-C₁₀ cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be -N₂-, -NH-, -CH=C=CH-, -C=C=CH₂-, -C≡C-CHOH-, -C≡C-C₂HOH-, -C≡C-CH₂-, -CH₂-CH₂-O-, -CH₂-CH₂-CH₂-O-, -S-, -S(=O)₂-, -C(=O)-, -C(=O)-O-, -NH-C(=O)-, -C(=O)-NH-, -C=O,

Applicants: Christina Kabbash et al.

U.S. Serial No.: 10/813,322

Filed: March 29, 2004

Page 3

~~C=O O~~, ~~NH C=O~~, ~~C=O NH~~; and wherein Q, p, n and X may independently be an integer from 1 to 10, or if Q is 1 A comprises a (C_1-C_{10}) -alkyl chain, $\{C_1-C_{10}\} - (C_2-C_{10})$ -alkenyl chain, $-(C_2-C_{10})$ -alkylene chain, or $\{C_1-C_{10}\} - (C_2-C_{10})$ -alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-; or a pharmaceutically acceptable salt or ester thereof, which compound is present in a concentration effective to inhibit growth of the bacterium.

2. (currently amended) The method of claim 1, wherein A comprises an $\{C_1-C_{10}\} - (C_2-C_{10})$ -alkylene chain, (C_1-C_{10}) -alkyl chain, $\{C_1-C_{10}\} - (C_2-C_{10})$ -alkenyl chain or $\{C_1-C_{10}\} - (C_2-C_{10})$ -alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

3. (original) The method of claim 1, wherein

$R_1 = R_4 = CH_3$ or -OH,

$R_2 = R_3 = R_5 = R_6 = H$ or -OH,

A = CH_2 ,

and Q = 3.

4. (original) The method of claim 1, wherein

$R_3 = Cl$,

$R_1 = R_2 = R_4 = R_5 = R_6 = H$ or -OH,

and Q = 0.

Applicants: Christina Kabbash et al.

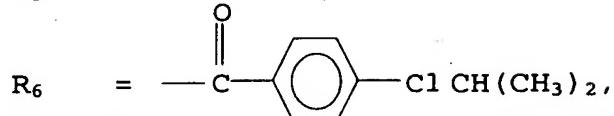
U.S. Serial No.: 10/813,322

Filed: March 29, 2004

Page 4

5. (original) The method of claim 1, wherein

$R_3 =$



$R_1 = R_2 = R_4 = R_5 = H$ or $-\text{OH}$,
and $Q = O$.

6. (original) The method of claim 1, wherein

$R_3 = Cl$,

$R_6 = C_2H_5$,

$R_1 = R_2 = R_4 = R_5 = H$ or $-\text{OH}$,
and $Q = O$.

7. (original) The method of claim 1, wherein the bacterium is *Legionella pneumophila*, *Mycobacterium tuberculosis*, *Bacillus subtilis*, *Bacillus Megaterium*, *Pseudomonas Oleovorans*, *Alcaligenes eutrophus*, *Rhodococcus sp.*, *Citrobacter freundii*, *Group A Streptococcus sp.*, *Coag neg Staphylococcus aureus* or *Nocardia sp.*

8. (original) The method of claim 1, wherein the bacterium is *Legionella pneumophila*.

9. (original) The method of claim 1, wherein the bacterium is *Mycobacterium tuberculosis*.

10. (original) The method of claim 1, wherein the bacterium is in a eukaryotic cell.

Applicants: Christina Kabbash et al.
U.S. Serial No.: 10/813,322
Filed: March 29, 2004
Page 5

11. (original) The method of claim 1, wherein the concentration of the compound is from about 5 $\mu\text{g}/\text{ml}$ to about 100 $\mu\text{g}/\text{ml}$.

12. (original) The method of claim 1, wherein the concentration of the compound is 20 $\mu\text{g}/\text{ml}$.

13-59. (canceled).

60. (new) A method for inhibiting growth of a bacterium which consists essentially of contacting the bacterium with gemfibrozil in a concentration effective to inhibit growth of the bacterium.

61. (new) The method of claim 60, wherein the bacterium is *Legionella pneumophila*, *Mycobacterium tuberculosis*, *Bacillus subtilis*, *Bacillus Megaterium*, *Pseudomonas Oleovorans*, *Alcaligenes eutrophus*, *Rhodococcus* sp., *Citrobacter freundii*, Group A *Streptococcus* sp., *Coag neg Staphylococcus aureus* or *Nocardia* sp.

62. (new) The method of claim 60, wherein the bacterium is *Legionella pneumophila*.

63. (new) The method of claim 60, wherein the bacterium is *Mycobacterium tuberculosis*.

64. (new) The method of claim 60, wherein the bacterium is in a eukaryotic cell.

65. (new) The method of claim 60, wherein the concentration of gemfibrozil is from about 5 $\mu\text{g}/\text{ml}$ to about 100 $\mu\text{g}/\text{ml}$.

Applicants: Christina Kabbash et al.
U.S. Serial No.: 10/813,322
Filed: March 29, 2004
Page 6

66. (new) The method of claim 60, wherein the concentration of gemfibrozil is 20 $\mu\text{g}/\text{ml}$.

67. (new) A method for alleviating the symptoms of a bacterial infection in a subject which consists essentially of administering to the subject an amount of gemfibrozil in a concentration effective to inhibit bacterial growth and thus alleviate the symptoms of the bacterial infection in the subject.

68. (new) The method of claim 67, wherein the bacterial infection is associated with *Legionella pneumophila*, *Mycobacterium tuberculosis*, *Bacillus subtilis*, *Bacillus Megaterium*, *Pseudomonas oleovorans*, *Alcaligenes eutrophus*, *Rhodococcus sp.*, *Citrobacter freundii*, Group A *Streptococcus sp.*, *Coag neg Staphylococcus aureus* or *Nocardia sp.*

69. (new) The method of claim 67, wherein the bacterial infection is associated with *Legionella pneumophila*.

70. (new) The method of claim 67, wherein the bacterial infection is associated with *Mycobacterium tuberculosis*.

71. (new) The method of claim 67, wherein the subject is a human or an animal.

72. (new) The method of claim 67, wherein the bacterial infection is associated with Leprosy, Brucella or Salmonella.

73. (new) The method of claim 67, wherein the concentration of gemfibrozil is from about 5 $\mu\text{g}/\text{ml}$ blood of the subject to about 180 $\mu\text{g}/\text{ml}$ blood of the subject.

Applicants: Christina Kabbash et al.
U.S. Serial No.: 10/813,322
Filed: March 29, 2004
Page 7

74. (new) The method of claim 67, wherein the concentration of gemfibrozil is 90 µg/ml blood of the subject.

75. (new) The method of claim 67, wherein the administration to the subject is oral.

76. (new) A method of altering a pathway of fatty acid synthesis in a bacterium which comprises contacting the bacterium with gemfibrozil thus altering the pathway of fatty acid synthesis.

77. (new) The method of claim 76, wherein the bacterium is *Legionella pneumophila*, *Mycobacterium tuberculosis*, *Bacillus subtilis*, *Bacillus Megaterium*, *Pseudomonas Oleovorans*, *Alcaligenes eutrophus*, *Rhodococcus sp.*, *Citrobacter freundii*, Group A *Streptococcus sp.*, *Coag neg Staphylococcus aureus* or *Nocardia sp.*

78. (new) A method for determining whether or not a bacterium is sensitive to gemfibrozil which comprises contacting the bacterium with a concentration of gemfibrozil effective to inhibit growth of the bacterium if the bacterium is sensitive to gemfibrozil, thereby determining whether or not the bacterium is sensitive to the gemfibrozil.

79. (new) The method of claim 78, wherein the bacterium is in a cell.

80. (new) The method of claim 78, wherein the bacterium is selected from the group consisting of *Legionella pneumophila*, *Bacillus subtilis*, *Caulobacter crescentus*,

Applicants: Christina Kabbash et al.

U.S. Serial No.: 10/813,322

Filed: March 29, 2004

Page 8

Citrobacter freundii, *Nocardia* sp., *Rhodobacter sphaeroides*,
Group A Streptococcus sp., *Coag neg Staphylococcus aureus*
and *Mycobacterium tuberculosis*.

81. (new) The method of claim 78, wherein the concentration of the gemfibrozil is from about 5 μ g/ml to about 100 μ g/ml.

82. (new) The method of claim 78, wherein the concentration of the gemfibrozil is 20 μ g/ml.